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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/002,008	12/05/2001	Riichiro Ikeda	1560-0374P-SP	2855

2292 7590 07/23/2003

BIRCH STEWART KOLASCH & BIRCH
PO BOX 747
FALLS CHURCH, VA 22040-0747

EXAMINER

SPISICH, GEORGE D

ART UNIT	PAPER NUMBER
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3616

DATE MAILED: 07/23/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/002,008	IKEDA, RIICHIRO
	Examiner George D. Spisich	Art Unit 3616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 29 May 2003.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-15 is/are pending in the application.

4a) Of the above claim(s) 4 and 5 is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1,2,7,11 and 12 is/are rejected.

7) Claim(s) 3,6,8-10 and 13-15 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
 If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____ .
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ .
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .	6) <input type="checkbox"/> Other: _____ .

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Ryne et al. (USPN 6,389,924).

Ryne et al. disclose an electric power steering apparatus having a steering assist motor (28) for assisting operation of a steering mechanism by turning a steering member and a support mechanism (30, seen best in Figure 2) for supporting the motor on a stationary member and the supporting mechanism has a releasing mechanism, shown as a pin on one side of the supporting mechanism and a hole and slot on the other side of the supporting mechanism, for releasing support of the motor on the stationary member by impact energy applied to the motor. It is understood that any connection, and especially the connection shown in Figure 2 would disconnect under impact.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2, 7, 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ryne et al. (USPN 6,389,924).

Ryne et al. has been discussed in the prior rejection. However, though Ryne et al. does not show specifically a projection being inserted into a recess to make the connection between the motor and the stationary member, it is obvious that there would be a projection on the motor in opposite orientation to the projection and recess shown on the supporting member in Figure 2 to make the connection between the stationary member and the motor. This projection would be inserted into the recess and the releasing mechanism (the slot arrange with the recess or hole) comprises a movement permitting portion for permitting relative movement of the projection in the recess and a slip-off portion (slot) from where the projection slips off the movement permitting portion. To have the projection configured as a screw member or any other fastener with a head would have been an obvious expedient so as to facilitate connection.

Furthermore, Ryne et al. shows an electric power steering apparatus having a steering shaft (16) joined to a steering member, a shaft housing (14) for accommodating the steering shaft, a steering assist motor (28) for assisting operation of a steering

mechanism (which would be present in any steering arrangement) joined to the steering shaft. The steering assist motor would have a rotor (as a rotor is an element of any steering motor) and the motor and rotor (from Figure 1) appear to be arranged so that a rotational center thereof intersects an axis of the steering shaft and a cylindrical motor housing for support housing for supporting the rotor. Ryne et al. shows a supporting mechanism (30 or 26) for supporting one end of portion of the motor housing on the shaft housing and the supporting mechanism comprises a projection at a peripheral position of the motor which is understood to exist when considering the connection of the motor and the support mechanism as is shown in Figure 2. There is an arc-shaped groove provided at the shaft housing into which the projection is inserted so as to movable in a length direction of the groove. Since the supporting mechanism (30) is attached with the shaft housing, it is considered to meet the limitation that "the groove is provided at the shaft housing". Ryne et al. (as also seen in Figure 2) shows that the hole/recess in the supporting mechanism has an abutting groove defining a slip-off portion from where the projection slips off the arc-shaped groove when the projection moves.

The projection could be named as a "tongue" and the recess is configured as an annular groove.

Allowable Subject Matter

Claims 3, 6, 8-10 and 13-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Prior art does not show (claim 3) and elastic member pushing the projection outward to a slip-off portion, or (at least claims 8-10, 13 and 15) an impact energy receiver on the peripheral face of the housing for applying rotational force to the housing by the impact energy.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ryne et al. (USPN 6,389,924).

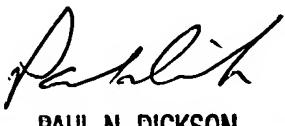
Any inquiry concerning this communication or earlier communications from the examiner should be directed to George D. Spisich whose telephone number is (703) 305-6495. The examiner can normally be reached on Monday to Friday 6:00-3:30 except alternate Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Dickson can be reached on (703) 308-2089. The fax phone numbers

for the organization where this application or proceeding is assigned are (703) 308-2571 for regular communications and (703) 305-7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-1113.

gds
July 18, 2003


7/21/03
PAUL N. DICKSON
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600